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ARE WE HEADED FOR A NEW ICE AGE? (CURRENT)
THE NEW SOUTH: PUSHING FORWARD ON ALL FRONTS (U.S. NEWS & WORLD REPORT)
TALKING TEETH (AMERICAN SCIENTIST)

ANNCR: HERE IS ----------, WITH FROM THE MAGAZINE RACK, A REVIEW OF ARTICLES ON TIMELY TOPICS FROM MAGAZINES PUBLISHED IN THE UNITED STATES. TODAY, AN ARTICLE FROM AMERICAN SCIENTIST ON HOW TEETH PRINTS ARE USED FOR H MAN IDENTIFICATION. FROM U.S. NEWS, A LOOK AT THE CHANGING IMAGE OF THE AMERICAN SOUTH. AND FROM CURRENT, NEWS ON THE POSSIBILITY OF ANOTHER ICE AGE.

EDITOR: SOME PEOPLE ONLY NOTICE CHANGES IN WEATHER WHEN THEY HAVE TO PUT ON EXTRA CLOTHING OR TAKE SOME OFF. THEY TAKE THE WEATHER FOR GRANTED. IF YOU'RE LIKE THAT, YOU'LL PROBABLY WONDER WHY AN INTERNATIONAL SYMPOSIUM OF LEADING SCIENTISTS HAS BEEN MEETING FOR TWO YEARS TO DISCUSS THE FACT THAT THE EARTH HAS GOTTEN SLIGHTLY COLDER IN THE LAST THIRTY YEARS. ANTHONY WOLFF, WRITING IN CURRENT, GIVES US THE CHILLING FACTS.

VOICE: "MANY SERIOUS SCIENTISTS TODAY ARE CONVINCED THAT THE SLIGHT DOWNHILL SLOPE ON THE EARTH'S TEMPERATURE CHART -- AMOUNTING TO LESS THAN HALF A DEGREE CENTIGRADE SO FAR -- IS CONNECTED IN SOME AS YET POORLY UNDERSTOOD WAY WITH SUCH RECENT MAJOR DISASTERS AS THE FREQUENT MONSOON FAILURES IN INDIA AND THE PROLONGED DROUGHT IN THE SAHEL IN AFRICA. IF THE KINDS OF CAUSAL INFERENCES THEY ARE BEGINNING TO DRAW PROVE TO BE VALID, AND IF THE PRESENT COOLING TREND

VOICE: (CONT'D) PERSISTS, THE WORLD IS IN FOR A FUTURE OF INCREASING FAMINE AND POLITICAL AND SOCIAL TURBULENCE. SMALL WONDER, THEN, THAT TALKING ABOUT THE WEATHER HAS BECOME URGENT INERNATIONAL BUSINESS."

EDITOR: WHAT'S THE EVIDENCE FOR THIS CLIMATIC CHANGE? WELL, IN THE LAST THIRTY-FIVE YEARS, ICELAND'S TEMPERATURE HAS DROPPED TO ITS PRE-1900 LEVEL, AND ITS PORTS HAVE FROZEN FOR THE FIRST TIME THIS CENTURY. THE SURFACE TEMPERATURE OF THE NORTH ATLANTIC HAS COOLED ONE-EIGHTH OF THE WAY BACK TO ICE AGE CONDITIONS. THE AVERAGE GROWING SEASON IN THE ENGLISH LOWLANDS IS NOW ALMOST TWO WEEKS SHORTER THAN IT WAS IN 1940. AND IN THE UPPER MIDWEST OF THE UNITED STATES THERE HAS BEEN A RESUMPTION OF MIDSUMMER FROSTS. AUTHOR WOLFF SAYS NOT ALL SCIENTISTS TAKE A NEGATIVE VIEW. HE WRITES:

VOICE: "SOME CRITICS OBJECT THAT THE PESSIMISTS FORCE DRASTIC CONCLUSIONS FROM INADEQUATE DATA, TEASE PATTERNS FROM RANDOM PHENOMENA, AND MISTAKE COINCIDENCES FOR CORRESPONDENCES."

EDITOR: WHICH INTERPRETATION IS CORRECT? NO ONE IS ABSOLUTELY CERTAIN. BUT AS MR. WOLFF POINTS OUT, MOST EXPERTS THINK THE BEST APPROACH IS TO GIVE THE PESSIMISTS THE BENEFIT OF THE DOUBT. /ALTHOUGH THE LACK OF PRECISE CLIMATE THEORY PREVENTS SCIENTISTS FROM MAKING ABSOLUTE JUDGMENTS, THERE IS AGREEMENT THAT CLIMATE-RELATED PROBLEMS CAN CAUSE PROFOUND PROBLEMS FOR THE WORLD. WOLFF WRITES:

OPT

VOICE: "TODAY, A MAJOR MONSOON FAILURE WOULD AFFLICT PRECISELY THOSE AREAS THAT ARE ALREADY THE MOST PERILOUSLY OVER-POPULATED, WHILE A LONG DROUGHT WOULD HIT THE WORLD'S GREAT GRANARIES IN NORTH AMERICA AND THE SOVIET UNION."

OPT

EDITOR: THE RECENT REVIVAL OF CLIMATOLOGY IS IN ITSELF A WARNING TO THE SCIENTIFIC COMMUNITY THAT IT MUST DEAL WITH THE QUESTION OF CLIMATE CONTROL SERIOUSLY. AND SCIENTISTS ARE TAKING THE HINT. THERE HAVE BEEN CONFERENCES ON WEATHER MODIFICATION AND ITS USE IN BOTH INTERNATIONAL CONFLICT AND AGRICULTURAL CONTROL. MR. WOLFF CONCLUDES THAT CLIMATOLOGY RESEARCH IS MOVING IN THE RIGHT DIRECTION. SOME DAY, THE IMPACT OF WEATHER CHANGES WILL BE FULLY UNDERSTOOD. RAIN OR SHINE, MANY PEOPLE WOULD LIKE TO SEE THAT DAY SOON.

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EDITOR: A SUPERFICIAL READING OF AMERICAN HISTORY MIGHT GIVE THE IMPRESSION THAT THE AMERICAN SOUTH IS A PLACE WHERE ONLY BACKWARD FARMERS LIVE. AMERICAN FILMS SUCH AS "GONE WITH THE WIND" HAVE DRAMATIZED THE IMAGE OF THE SOUTH AS A SPRAWLING RURAL PLANTATION, WHERE RACIAL PREJUDICE AND REVENGE AGAINST THE NORTH ARE THE FIBER OF LIFE. BEYOND THAT IMAGE, THERE IS A DIFFERENT SOUTH. AN ARTICLE IN U.S. NEWS AND WORLD REPORT DESCRIBES TODAY'S "NEW SOUTH," AS SOME CALL IT, AND POINTS TO JIMMY CARTER'S TRIUMPH AS THE DEMOCRATIC PRESIDENTIAL NOMINEE AS LIVING PROOF THAT THE SOUTH HAS FINALLY ERASED THAT IMAGE. SAYS U.S. NEWS:

VOICE: "MOST PEOPLE IN THIS AREA (ATLANTA, GEORGIA) REGARD IT (CARTER'S SUCCESS) AS NATIONAL RECOGNITION OF DRAMATIC SOCIAL, ECONOMIC AND RACIAL CHANGES THAT HAVE TRANSFORMED THE ONCE-BACKWARD STATES OF THE OLD CONFEDERACY INTO WHAT MANY CONSIDER TO BE THE MOST DYNAMIC REGION OF THE UNITED STATES."

EDITOR: MANY SOUTHERNERS BELIEVE THAT MR. CARTER HAS WIPED OUT THE IMAGE OF THE BIGOTED SOUTHERN POLITICIAN AND BECOME A REPRESENTATIVE OF THE PROGRESSIVE SOUTH. WHAT IS TODAY'S SOUTH REALLY LIKE? ACCORDING TO THE ARTICLE, IT IS MUCH LIKE ANY OTHER REGION OF THE COUNTRY. THE FACTS PROVE IT. THE ELEVEN SOUTHERN STATES FROM VIRGINIA TO TEXAS NOW CONTAIN FIVE OF THE TWENTY MOST POPULOUS CITIES IN THE COUNTRY, COMPARED TO TWO IN 1950. /IN THOSE SAME STATES, PERSONAL INCOME, BANK ASSETS, AND INDUSTRY OUTPUT HAVE RISEN AT NEARLY TWICE THE RATE OF THE REST OF THE COUNTRY. MANY CORPORATE AND REGIONAL HEADQUARTERS OF BOTH DOMESTIC AND FOREIGN COMPANIES HAVE MOVED TO GEORGIA, CARTER'S HOME STATE. WHILE THE SOUTH IS GROWING INDUSTRIALLY, IT IS ALSO CHANGING IN PERSONALITY. DAVID C. BASS, A SOUTHERN SOCIOLOGIST, SAYS THAT PROCESS IS INEVITABLE. HE NOTES:

OPT

VOICE: "WE ARE DRIFTING AWAY FROM THE SOUTHERN LIFE STYLE. IT'S IMPOSSIBLE TO HAVE A FOLK SOCIETY AND AN URBAN INDUSTRIAL SOCIETY TOGETHER -- THEY DON'T MIX. IT'S HARD TO LOVE YOUR FELLOW MAN IN A CITY OF A MILLION WHEN THEY ARE RUNNING ALL OVER YOU."

EDITOR: THE ARTICLE STRESSES THAT THE GRADUAL END OF SEGREGATION ALLOWED THE SOUTH TIME TO MOVE FORWARD ECONOMICALLY. AND THE PASSAGE OF THE FEDERAL VOTING RIGHTS ACT OF 1965, A LAW THAT GUARANTEES BLACKS THE RIGHT TO VOTE WITHOUT RESTRICTIONS, FREED THE SOUTH AND FORCED PROGRESSIVE CHANGES. /BUT THE GREAT CHANGES AND GROWTH IN THE SOUTH OVER THE PAST DECADE HAVE GONE RELATIVELY UNNOTICED UNTIL THE SUCCESS OF JIMMY CARTER./ IN FACT, THE REGION HAS BECOME A MODEL FOR SOCIAL CHANGE. SOUTHERN SCHOOLS ARE NOW THE MOST RACIALLY INTEGRATED IN THE U.S. AND MORE BLACKS HOLD PUBLIC OFFICE IN THE SOUTH THAN ANY OTHER PART OF THE COUNTRY. MR. CARTER'S SUCCESS HAS FINALLY BROUGHT NATIONAL RECOGNITION TO THE SOUTH. U.S. NEWS SAYS:

OPT

VOICE: "THEY (SOUTHERNERS) BELIEVE THAT CARTER HAS BROKEN THROUGH A BARRIER THAT HAS EXISTED BETWEEN NORTH AND SOUTH SINCE BEFORE THE CIVIL WAR, AND THAT HE HAS LAID TO REST THE MYTH THAT A SOUTHERNER CANNOT ASPIRE TO THE PRESIDENCY."

EDITOR: U.S. NEWS CONCLUDES THAT JIMMY CARTER HAS GIVEN THE SOUTH A NEW SENSE OF REGIONAL PRIDE. WHETHER THE "NEW SOUTH" CAN HELP GIVE HIM THE PRESIDENCY IS, OF COURSE, ANOTHER QUESTION.

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EDITOR: WHAT'S THE NEWEST WAY TO IDENTIFY A HUMAN BODY? IF YOUR ANSWER IS FINGERPRINTING, YOU'RE WRONG. IT'S FORENSIC DENSTISTRY, OR ANALYZING TEETH OR BITE PRINTS. THIS IS A DEVELOPING FIELD THAT IS HELPING THE LEGAL AND MEDICAL

EDITOR: (CONT'D) PROFESSIONS WITH IDENTIFICATION PROBLEMS. REIDAR F. SOGNNAES, WRITING IN AMERICAN SCIENTIST, DISCUSSES WHY THIS TECHNIQUE IS SO VALUABLE. HE SAYS:

VOICE: OPT "THE POSTMORTEM SURVIVAL OF DENTAL ITEMS OF INTEREST HAS LED TO INCREASED RECOGNITION OF THE IMPORTANCE OF THE DENTITION (FORMATION AND ARRANGEMENT OF TEETH) NOT ONLY IN FORENSIC SCIENCE BUT ALSO IN HISTORICAL AND ANTHROLPOLOGICAL RESEARCH. /IF ADEQUATELY RECORDED, MEASURED, AND COMPARED, NO INDIVIDUAL BENCH MARK IS MORE DURABLY CHARACTERISTIC THAN THE H MAN DENTITION AND ITS INDIVIDUALIZED TOOTH PRINTS. NEITHER ARE THERE MORE RELIABLE RECORDS OF MAN'S HISTORICAL IDENTITY, FOR EXAMPLE, THE LATEST LEAKEY EXCAVATIONS IN EAST AFRICA; A HUMAN JAW FRAGMENT WITH ITS TEETH STILL INTACT AFTER ABOUT THREE AND A HALF MILLION YEARS!"

EDITOR: FORENSIC DENTISTRY ACTUALLY BEGAN A CENTURY AND A QUARTER AGO IN BOSTON, MASSACHUSETTS. A MURDER CASE REQUIRED SOMEONE TO IDENTIFY A BURNED BODY. A DENTIST NAMED DR. NATHAN KEEP WAS CALLED IN TO EXAMINE THE ONLY REMAINING IDENTIFIABLE EVIDENCE -- A FEW LOWER JAW FRAGMENTS AND A DENTAL BRIDGE HE HAD FITTED FOR THE VICTIM. IT WAS THE FIRST CASE IN WHICH DENTAL ART DETERMINED THE OUTCOME OF A LEGAL CASE. THAT MURDER CASE LED TO THE ESTABLISHMENT OF THE FIRST SCHOOL OF DENTISTRY, DEDICATED TO DENTAL RESEARCH AND EDUATION. WHEN IS DENTAL ANALYSIS USED? AUTHOR SONGNNAES WRITES:

VOICE: "THERE IS NO DENTAL EVIDENCE THAT SPEAKS LOUDER AND MORE OBJECTIVELY THAN DENTAL X-RAYS, ESPECIALLY IN COURT, BE IT FOR THE PROSECUTION OR THE DEFENSE, IN CASES INVOLVING A HOMICIDE, A MALPRACTICE SUIT, OR AN INSURANCE CLAIM. OTHER SPECIAL FEATURES OF THE TEETH CAN GIVE THE DENTAL DETECTIVE A CLUE TO AN INDIVIDUAL'S OCCUPATION: THE INCISORS OF CARPENTERS AND SEAMSTRESSES, FOR EXAMPLE, MAY SHOW RIDGES FROM BITING ON NAILS, PINS, AND THREADS. THE HUMAN BITE CAN ALSO PROVIDE EVIDENCE WHICH MAY LEAD TO IDENTIFICATION OF THE CULPRIT IN CASES IN WHICH THE FELON LEAVES BEHIND A HALF-EATEN APPLE, A CHOCOLATE BAR, OR A PIECE OF CHEESE WITH IMPRINTS OF THE INCISOR TEETH."

EDITOR: DENTAL IDENTIFICATION IS ALSO USEFUL WHEN DETERMINATION OF FAMOUS PEOPLE IS HARD TO CONFIRM. THE DENTAL REMAINS OF ADOLPH HITLER AND MARTIN BORMANN, FOR EXAMPLE, WERE EXAMINED BY THE AUTHOR. BASED ON INFORMATION FROM THEIR DENTIST, HE WAS ABLE TO CONFIRM THAT THE RUSSIANS DID RECOVER HITLER'S BODY, AND THAT BORMANN DID DIE IN BERLIN RATHER THAN FLEE TO SOUTH AMERICAN AFTER THE COLLAPSE OF NAZI, GERMANY. HOW CAN MR. SOGNNAES BE SO SURE? HE ANSWERS THE QUESTION:

VOICE: "ACUTAL CASES HAVE SHOWN THAT WHEN IT COMES TO TEETH, BITES, AND DENTAL REMAINS, MEN ARE NOT CREATED EQUAL AND THAT EVEN IDENTICAL TWINS ARE NOT NECESSARILY DENTALLY IDENTICAL."

EDITOR: THE AUTHOR BELIEVES THAT DENTAL ANALYSIS WILL PLAY AN INCREASINGLY IMPORTANT ROLE IN AND OUT OF THE COURTROOM. HE NOTES THAT THE MOUTH HAS ALWAYS BEEN THOUGHT OF AS THE ORGAN SYSTEM "WHERE IT ALL BEGINS." NOW IT MAY HAVE THE LAST WORD.

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ANNCR: YOU'VE BEEN LISTENING TO FROM THE MAGAZINE RACK, TIMELY TOPICS FROM PERIODICALS PUBLISHED IN THE UNITED STATES. JOIN US AGAIN NEXT ----------, FOR SELECTIONS FROM THE MAGAZINE RACK. THIS IS ----------.

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